

## Refine Search

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

### Search Results -

Terms	Documents
L11 and ((total\$ or integra\$ or add\$ or sum\$) with (distance\$ length\$ or section or segment)) and ((wheel near2 size) with (distance or length) with (revolution or rotat\$))	8

Database:

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

10/609377

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Friday, June 01, 2007  
[Create Case](#)

[Purge Queries](#)

[Printable Copy](#)

Set  
Name Query  
side  
by  
side

Hit Set  
Count Name  
result  
set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;  
THES=ASSIGNEE; PLUR=YES; OP=OR*

L13 L11 and ((total\$ or integra\$ or add\$ or sum\$) with (distance\$ length\$ or section or segment)) and ((wheel near2 size) with (distance or length) with (revolution or rotat\$)) 8 L13

L12 L11 and ((total\$ or integra\$ or add\$ or sum\$) with (distance\$ length\$ or section or segment)) ((wheel near2 size) with (distance or length) with (revolution or rotat\$)) 78 L12

L11 17 or 18 or 19 or 110 100 L11

*DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

L10 (6434466 | 5533695 | 5944768 | 5072900 | 20030093188 | 6446005 | 20040006411 | 6347265 | 5060890 | 6220987 | 5791425 | 5803411 | 5751569 | 6102340 | 6081769 | 4819168 | 6345233 | 6148269 | 5931882 | 5995881 | 6456937 | 6360165 | 5177685 | 20010054310 | 5620155 | 5950966 | 4179739 | 5452870 | 6397147 | 6311109 | 4561057 | 5828979 | 6487478 | 5340062 | 6374184 | 5947423 | 5699986 | 5796613 | 6230083 | 5740547 | 6377877 | 4181943 | 6701228 | 6381536 | 6135396 | 5794730 | 6218961 | 4208717 | 5149025 | 6401036 | 5394333 | 5129605 | 6179252 | 5908466 | 6459965 | 5247338 | 6373403 | 5398894 | 4459668 | 6459964 | 5978718 | 4711418 | 6371416 | 20030036847 | 5971091 | 6421587 | 6611755 | 20030163255 | 5364047 | 6322025 | 6049745 | 5867122 | 5332180)! [PN] 73 L10

*DB=PGPB,USPT,USOC,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR*

L9 ("20040006411" | "20040181320" | "20070095988" | "20070112482" | "20030225490" | "6701228" | "6970774" | "2865323" | "RE24923" | "2608922" | "1985433" | "US20040006411A") [ABPN1,NRPN,PN] 21 L9

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;  
THES=ASSIGNEE; PLUR=YES; OP=OR*

L8 16 12 L8

*DB=PGPB,USPT,USOC,DWPI; THES=ASSIGNEE; PLUR=YES;  
OP=OR*

L7 ("20040006411"| "20040181320"| "20070095988"|  
"20070112482"| "20030225490"| "6701228"|  
"6970774"| "2865323"| "RE24923"| "2608922"|  
"1985433"| "US20040006411A") [URPN] 9 L7

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD;  
THES=ASSIGNEE; PLUR=YES; OP=OR*

L6 ((wheel near2 size) with (distance or length) with  
(revolution or rotat\$)) and (locomotive or train) and  
((total\$ or integra\$ or add\$ or sum\$) same (distance\$  
length\$ or section or segment)) 12 L6

L5 L4 and (locomotive or train) and ((total\$ or integra\$ or  
add\$ or sum\$) same (distance\$ length\$ or section or  
segment)) 0 L5

*DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

L4 ((wheel near2 size) with (distance or length) with  
(revolution or rotat\$)) and @pd<=20020521 44 L4

L3 L1 and (locomotive or train) and ((total\$ or integra\$ or  
add\$ or sum\$) same (distance\$ length\$ or section or  
segment)) 2 L3

L2 L1 and (locomotive or train) and ((total\$ or sum\$) with  
(distance or section or segment)) 0 L2

L1 ((wheel near2 size) with (distance or length) with  
(revolution or rotat\$)) and @ad<=20020521 48 L1

END OF SEARCH HISTORY

# Hit List

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**First Hit**

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

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**Search Results - Record(s) 1 through 10 of 12 returned.**

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☐ **1. Document ID: US 20070112482 A1**

L6: Entry 1 of 12

File: PGPB

May 17, 2007

PGPUB-DOCUMENT-NUMBER: 20070112482

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070112482 A1

TITLE: METHOD AND SYSTEM FOR COMPENSATING FOR WHEEL WEAR ON A TRAIN

PUBLICATION-DATE: May 17, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
KANE; Mark Edward	Orange Park	FL	US
SHOCKLEY; James Francis	Orange Park	FL	US
HICKENLOOPER; Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 701/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ **2. Document ID: US 20070095988 A1**

L6: Entry 2 of 12

File: PGPB

May 3, 2007

PGPUB-DOCUMENT-NUMBER: 20070095988

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070095988 A1

TITLE: Method and System for Compensating for Wheel Wear on a Train

PUBLICATION-DATE: May 3, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane; Mark Edward	Orange Park	FL	US
Shockley; James Francis	Orange Park	FL	US
Hickenlooper; Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 246/182R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 3. Document ID: US 20040181320 A1

L6: Entry 3 of 12

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181320  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040181320 A1

TITLE: Method and system for compensating for wheel wear on a train

PUBLICATION-DATE: September 16, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane, Mark Edward	Orange Park	FL	US
Shockley, James Francis	Orange Park	FL	US
Hickenlooper, Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 701/19; 701/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 4. Document ID: US 20040006411 A1

L6: Entry 4 of 12

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040006411  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040006411 A1

TITLE: Method and system for compensating for wheel wear on a train

PUBLICATION-DATE: January 8, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane, Mark Edward	Orange Park	FL	US
Shockley, James Francis	Orange Park	FL	US

Hickenlooper, Harrison Thomas

Palatka

FL

US

US-CL-CURRENT: 701/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 5. Document ID: US 20030225490 A1

L6: Entry 5 of 12

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030225490

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030225490 A1

TITLE: Method and system for compensating for wheel wear on a train

PUBLICATION-DATE: December 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane, Mark Edward	Orange Park	FL	US
Shockley, James Francis	Orange Park	FL	US
Hickenlooper, Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 701/19; 702/85

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 6. Document ID: US 6970774 B2

L6: Entry 6 of 12

File: USPT

Nov 29, 2005

US-PAT-NO: 6970774

DOCUMENT-IDENTIFIER: US 6970774 B2

TITLE: Method and system for compensating for wheel wear on a train

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 7. Document ID: US 6701228 B2

L6: Entry 7 of 12

File: USPT

Mar 2, 2004

US-PAT-NO: 6701228

DOCUMENT-IDENTIFIER: US 6701228 B2

TITLE: Method and system for compensating for wheel wear on a train

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: BR 200412083 A, US 20040006411 A1, WO 2005005222 A2, MX 2005014041 A1

L6: Entry 8 of 12

File: DWPI

Sep 5, 2006

DERWENT-ACC-NO: 2004-070975

DERWENT-WEEK: 200660

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TITLE: Train wheel size determining method, involves determining linear distance traveled by train, and calculating wheel size based on total distance and total number of wheel revolutions occurring during determining steps

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US RE24923 E

L6: Entry 9 of 12

File: USOC

Jan 17, 1961

US-PAT-NO: RE24923

DOCUMENT-IDENTIFIER: US RE24923 E

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: January 17, 1961

INVENTOR-NAME: Name not available

US-CL-CURRENT: 118/314; 118/325, 118/326, 118/DIG.21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 2865323 A

L6: Entry 10 of 12

File: USOC

Dec 23, 1958

US-PAT-NO: 2865323

DOCUMENT-IDENTIFIER: US 2865323 A

TITLE: Color coding apparatus

DATE-ISSUED: December 23, 1958

INVENTOR-NAME: HOFF WILBUR L

US-CL-CURRENT: 118/314; 118/325, 118/326, 118/DIG.21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
((wheel near2 size) with (distance or length) with (revolution or rotat\$)) and (locomotive or train) and ((total\$ or integra\$ or add\$ or sum\$) same (distance\$ length\$ or section or segment))	12

**Display Format:**

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**End of Result Set**

☐ [Generate Collection](#) [Print](#)

L13: Entry 8 of 8

File: DWPI

Sep 5, 2006

DERWENT-ACC-NO: 2004-070975

DERWENT-WEEK: 200660

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Train wheel size determining method, involves determining linear distance traveled by train, and calculating wheel size based on total distance and total number of wheel revolutions occurring during determining steps

INVENTOR: HICKENLOOPER, H T; KANE, M E ; SHOCKLEY, J F

PATENT-ASSIGNEE: QUANTUM ENG INC (QUANN), HICKENLOOPER H T (HICKI), KANE M E (KANEI), SHOCKLEY J F (SHOCI)

PRIORITY-DATA: 2003US-0609377 (July 1, 2003), 2002US-0157874 (May 31, 2002)

[Search Selected](#)[Search ALL](#)[Clear](#)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">BR 200412083 A</a>	September 5, 2006		000	G05D001/06
<input type="checkbox"/> <a href="#">US 20040006411 A1</a>	January 8, 2004		010	G06F007/00
<input type="checkbox"/> <a href="#">WO 2005005222 A2</a>	January 20, 2005	E	000	B61L000/00
<input type="checkbox"/> <a href="#">MX 2005014041 A1</a>	April 1, 2006		000	G05D001/06

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ  
DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK  
LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG  
SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW AT BE BG BW CH CY CZ DE DK  
EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK  
SL SZ TR TZ UG ZM ZW

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
BR 200412083A	July 1, 2004	2004BR-0012083	
BR 200412083A	July 1, 2004	2004WO-US20991	
BR 200412083A		WO2005005222	Based on
US20040006411A1	May 31, 2002	2002US-0157874	CIP of
US20040006411A1	July 1, 2003	2003US-0609377	
WO2005005222A2	July 1, 2004	2004WO-US20991	
MX2005014041A1	July 1, 2004	2004WO-US20991	

MX2005014041A1                      December 20, 2005                      2005MX-0014041  
MX2005014041A1    WO2005005222                      Based on

INT-CL (IPC): B61L 0/00; G05D 1/06; G06F 7/00

RELATED-ACC-NO: 2004-034003;2004-675681

ABSTRACTED-PUB-NO: US20040006411A  
BASIC-ABSTRACT:

NOVELTY - The method involves determining a linear distance traveled by a train during a time period by calculating a difference in positions reported by a positioning system located on the train at start and end of periods. The distance from determining steps are added to form a total distance. A wheel size is calculated based on the total distance and a total number of wheel revolutions occurring during each determining step.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) a system for determining a size of a train wheel
- (b) a method for supplying a corrected wheel sensor signal.

USE - Used for determining size of a wheel on a train.

ADVANTAGE - The method is performed periodically to correct for changes in wheel size over time due to wear so that the wheel rotation information can be used to determine train position and speed in the event of a positioning system failure.

DESCRIPTION OF DRAWING(S) - The drawing shows a logical block diagram of a train speed signal distribution system.

Control unit 110

Global positioning system receiver 130

Map database 140

Signal generator 180

Revolution sensor 320

ABSTRACTED-PUB-NO: US20040006411A  
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.3/5

DERWENT-CLASS: Q21 X23  
EPI-CODES: X23-A05;

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# Hit List

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**First Hit**

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The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

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## Search Results - Record(s) 1 through 8 of 8 returned.

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☐ 1. Document ID: US 20070112482 A1

L13: Entry 1 of 8

File: PGPB

May 17, 2007

PGPUB-DOCUMENT-NUMBER: 20070112482

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070112482 A1

TITLE: METHOD AND SYSTEM FOR COMPENSATING FOR WHEEL WEAR ON A TRAIN

PUBLICATION-DATE: May 17, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
KANE; Mark Edward	Orange Park	FL	US
SHOCKLEY; James Francis	Orange Park	FL	US
HICKENLOOPER; Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 701/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20070095988 A1

L13: Entry 2 of 8

File: PGPB

May 3, 2007

PGPUB-DOCUMENT-NUMBER: 20070095988

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070095988 A1

TITLE: Method and System for Compensating for Wheel Wear on a Train

PUBLICATION-DATE: May 3, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane; Mark Edward	Orange Park	FL	US
Shockley; James Francis	Orange Park	FL	US
Hickenlooper; Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 246/182R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 3. Document ID: US 20040181320 A1

L13: Entry 3 of 8

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181320

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040181320 A1

TITLE: Method and system for compensating for wheel wear on a train

PUBLICATION-DATE: September 16, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane, Mark Edward	Orange Park	FL	US
Shockley, James Francis	Orange Park	FL	US
Hickenlooper, Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 701/19; 701/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 4. Document ID: US 20040006411 A1

L13: Entry 4 of 8

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040006411

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040006411 A1

TITLE: Method and system for compensating for wheel wear on a train

PUBLICATION-DATE: January 8, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane, Mark Edward	Orange Park	FL	US
Shockley, James Francis	Orange Park	FL	US

Hickenlooper, Harrison Thomas

Palatka

FL

US

US-CL-CURRENT: 701/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20030225490 A1

L13: Entry 5 of 8

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030225490

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030225490 A1

TITLE: Method and system for compensating for wheel wear on a train

PUBLICATION-DATE: December 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kane, Mark Edward	Orange Park	FL	US
Shockley, James Francis	Orange Park	FL	US
Hickenlooper, Harrison Thomas	Palatka	FL	US

US-CL-CURRENT: 701/19; 702/85

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6970774 B2

L13: Entry 6 of 8

File: USPT

Nov 29, 2005

US-PAT-NO: 6970774

DOCUMENT-IDENTIFIER: US 6970774 B2

TITLE: Method and system for compensating for wheel wear on a train

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 6701228 B2

L13: Entry 7 of 8

File: USPT

Mar 2, 2004

US-PAT-NO: 6701228

DOCUMENT-IDENTIFIER: US 6701228 B2

TITLE: Method and system for compensating for wheel wear on a train

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

❑ 8. Document ID: BR 200412083 A, US 20040006411 A1, WO 2005005222 A2, MX 2005014041 A1

L13: Entry 8 of 8

File: DWPI

Sep 5, 2006

DERWENT-ACC-NO: 2004-070975

DERWENT-WEEK: 200660

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TITLE: Train wheel size determining method, involves determining linear distance traveled by train, and calculating wheel size based on total distance and total number of wheel revolutions occurring during determining steps

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L11 and ((total\$ or integra\$ or add\$ or sum\$) with (distance\$ length\$ or section or segment).) and ((wheel near2 size) with (distance or length) with (revolution or rotat\$))	8

**Display Format:**

[Previous Page](#)

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[Go to Doc#](#)

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### Search Results -

Terms	Documents
L1 and (locomotive or train) and ((total\$ or sum\$) with (distance or section or segment))	0

**Database:**

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:**

10/609377

Refine Search

Recall Text

Clear

Interrupt

### Search History

**DATE:** Friday, June 01, 2007  
[Create Case](#)

[Purge Queries](#)

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Set  
**Name Query**  
 side by  
 side

Hit  
**Count**  
Set  
**Name**  
 result  
 set

*DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

L1 and (locomotive or train) and ((total\$ or sum\$)

*integrat\$ add\$*

L2 with (distance or <sup>length</sup> section or segment)) 0 L2  
L1 ((wheel near2 size) with <sup>some</sup> (distance or length) with 48 L1  
(revolution or rotat\$)) and @ad<=20020521  
<sup>rev\$</sup>

END OF SEARCH HISTORY

Y-- 4963122  
A 3797332